Owner's Manual



SETTING UP INSTRUCTIONS
PARTS LIST

McCORMICK

(Also McCormick-Deering)

Cub-3 Spring Tooth Field Cultivator

INTERNATIONAL HARVESTER COMPANY

180 North Michigan Ave.

Chicago 1, Illinois, U.S.A.



Cos-3 Spring Tooth Field Cultivator.

TO THE OWNER

This cultivator consists of two frame rails, two 1-1/4" square tool bars, one long and one short, seven spring teeth with showels and two steel tire gauge wheels. Proumatic tire gauge wheels are available on special order.

The cultivator is pulled by means of the tractor drawbar which is extended forward. The frame rails are attached to the tractor drawbar to which the square tool bars are clamped parallel and behind the rear tractor whosis. The spring teeth are clamped on the tool bars. The gauge wheels central the operating depth.

This cultivator requires a master control lever (hand lift) which you may already have for use with some other implement. Because it is used with other implements, it is furnished only on special order.

You are urged to consult your International Harvester dealer concerning unusual field conditions or special crops. Within the International Harvester Company are men who have spent years in research and study of these things. Let the experience of these men serve you.

Be sure to read the instructions for Adjusting and Operating in this manual. Check each item referred to and acquaint yourself with the adjustments required to do a good job and to get maximum trouble-free service from your machine.

INSTRUCTIONS FOR ADJUSTING AND OPERATING

LUBRICATION

Keep all bearings and moving parts well lubricated.

GENERAL

It is recommended that the rear tractor wheels be equipped with either 7-24" or 8-24" pneumatic tires for maximum traction and ground clearance when the cultivator is in the raised position; however, 5-24" tires can be used.

This cultivator can be used with tractors equipped with fixed front axies; however, in view of the fact that various implements (not covered herein) are not adaptable to tractors with these axies, it is recommended the tractor be equipped with the adjustable type.

SPRING TOOTH SPACINGS

Spacings of 6, 7, 8 and 9" can be obtained between the spring tooth shovels. The frame rails can be adjusted along the tool bars, when necessary, to locate the spring tooth clamps.

MASTER CONTROL LEVER

CAUTION! Whenever the implement is removed from the tractor, the master control lever must always be set in the FORWARD notch in the quadrant. If another implement is not to be attached, the tension of the counter-balancing spring should be relieved.

INSTRUCTIONS FOR SETTING UP

Remove all wires and arrange parts conveniently.

Lubricate all bearings and moving parts as you proceed and see that they work freely.

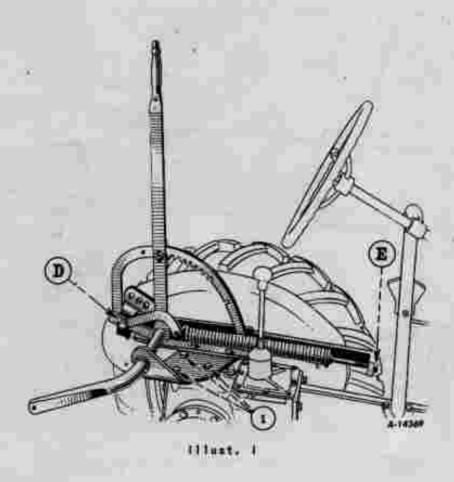
Bolts must be used in the holes in which they are found, or in parts to which they are attached, unless otherwise shown.

Shaded portions in the illustrations show parts to be ascembled; these must be placed on the machine in the order numbered.

Wherever the terms "right" and "left" are used, it should be understood to mean from a position behind and facing the machine.

We reserve the right to make changes or improvements in the design or construction of any part without incurring the obligation to install such changes on any machine previously delivered.

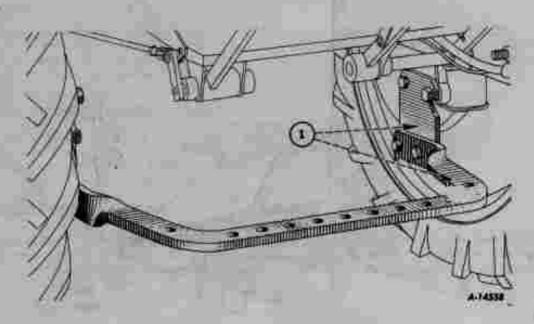
MASTER CONTROL LEVER (511 893 R93)



1. Bolt the lever unit to the transmission case with three cap scraws.

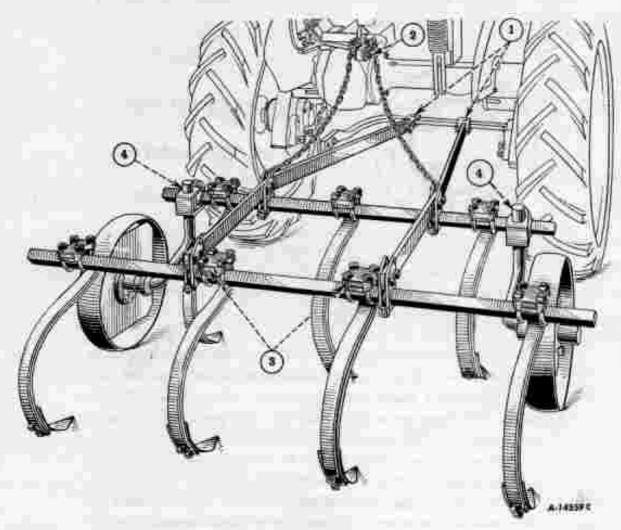
For greater ease in lifting the cultivator out of the ground, set the bolt "D" in the top of the slot in lift arm.

Balance the weight of the cultivator as desired by adjusting the spring tension at "E".



Illust. 2

1. Remove the tractor drawbar from the rear of the tractor and attach it to the front pads on the tractor year wheel housing as shown.



Illust. 3

- Place the cultivator frame under the tractor and attach it to the tractor drawbar with elevises and drilled pins. Secure the pins with quick-attachable cotters.
 - 2. Connect the pickup chains with the chain clips to the rockshaft.
 - 3. Lift the cultivator frame and set the spring teeth where desired.
 - 4. Attach the gauge wheels as shown.

NOTE: Pneumatic tire gauge wheels are furnished only on special order. Steel tire gauge wheels are regular.



Farm Accidents can be prevented with your help

No accident-prevention program can be successful without the whole-hearted co-operation of the person who is directly responsible for the operation of equipment.

To read accident reports from all over the country is to be convinced that a large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it be on the highway, in the harvest field or in the industrial plant, can be safer than the man who is at the controls. If farm accidents are to be prevented—and they can be prevented—it will be done by the operators who accept a full measure of their responsibility.

It is true that the designer, the manufacturer, the safety engineer can help; and they will help, but their combined efforts can be wiped out by a single careless act of the operator.

It is said that "the best kind of a safety device is a careful operator." We ask you to be that kind of an operator.

PARTS LIST AND ILLUSTRATIONS

The following pages contain parts lists and "exploded" view illustrations of the various units disassembled so that parts wanted may be readily located. Reference numbers only are shown in the illustrations. To avoid errors and delays, when ordering parts always use the regular "Part Number" shown with the Ref. No. Do not use reference numbers when ordering parts.

WHEN THE PART NUMBER IS NOT KNOWN: Use the "Index to Units" below and refer to the illustration of the unit on which the part is used. The illustrations show reference numbers which appear in the accompanying reference list. The reference list contains the part number with a "noun first" or basic description.

WHEN THE PART NUMBER IS KNOWN: Use the numerical index at the back of the samual. This index shows the page number on which the part is listed. The reference number, which is listed with the part number, may be used for referring to the illustration.

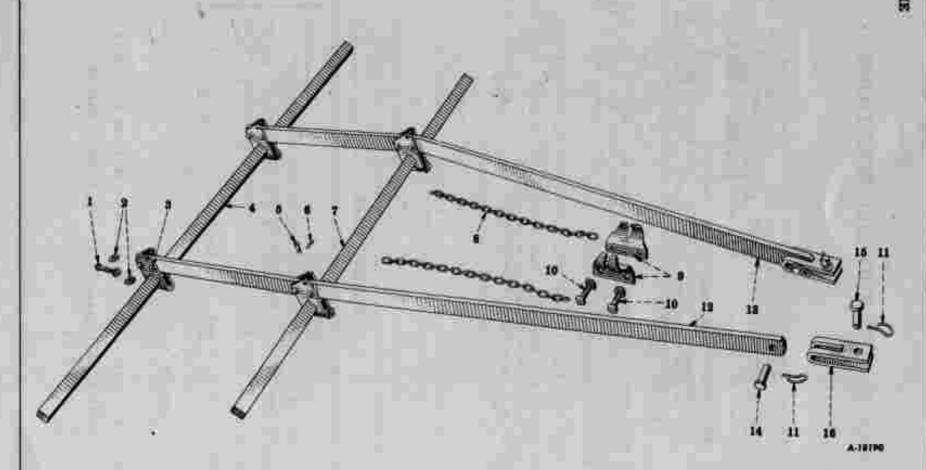
Do not order from the illustrations only; refer to the list also.

Attaching parts, such as bolts, cap screws, lock washers, nuts, cotter pins, etc. are listed beneath and indented from the part they attach. Attaching parts must be ordered separately as they are not furnished with the part they attach.

INDEX TO UNITS

Description															Page														
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Gauge	whee	ls.			ä	2		•	á	ě	Œ.	¥1			ŭ.	2	¥		4	4	¥.	¥	•			4		ě	13
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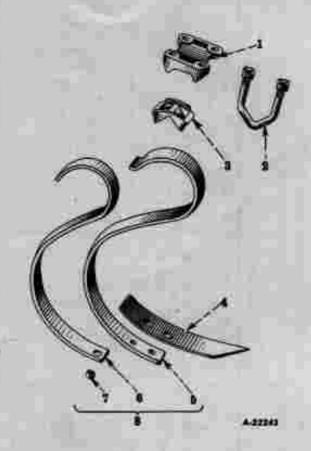
Numerical index to Part Numbers will be found on page 16.
List of abbreviations will be found on page 16.



Index to Reference Mumbers shown in LiTustration on opposite page.

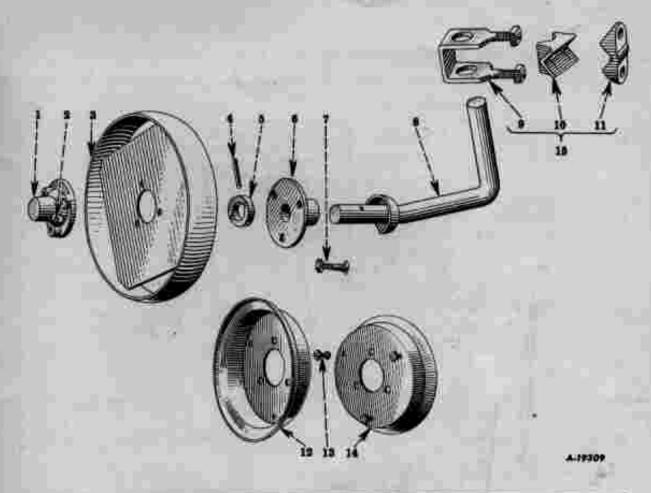
Ref.		Part Number	Description	Ref.	Part Number	Description				
123	Q	18 615 F 6 652 511 934 F 13 615 F 110 437 6 652 29 416 F 1 179 13 066 F 511 937 F 62 157	1 BOLT, machine, 7/16-14NC x 3", w/NUT. RIVET, rd-hd., 7/16 x 1-1/2' (2 used). WASHER, plain, 15/32" I.D. x 1" O.D. x 16 ga.(2 used). TOOLBAR (1-1/4" sq. x 60"). Follows Ref. No. 8. Follows Ref. No. 8. TOOLBAR (1-1/4" sq. x 48"). CHAIN, lifting (26 links of 1/4" Proof coil chain).	12 13 14	513 988 RE 13 338 R11 P0 18 500 A 103 3£3 511 932 R1 511 933 R1 6 642 86 209 B 511 935 R1 P0 18 500 A 26 209 B 6 642 10 620 F					

SPRING TOOTH



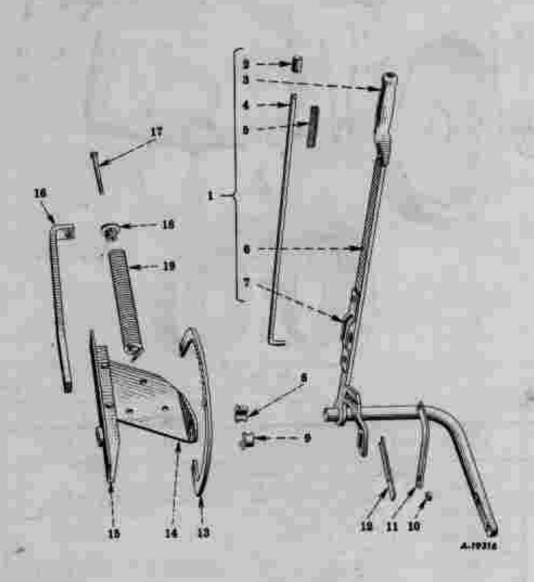
Ref. No.	Part Number	Description
2	PO 3 140 PO 27 762 A 105 608	CAF, U-bolt. U-BOLT, spring tooth, w/NUTS. NUT, square, 1/2-15ND (2 used.)
77.4	103 323 PO 5 139 P 16 280 15 569 R11 15 586 R11 103 322 Q 109	WASHER, lock, 1/2" (2 used). BLOCK, clamp. SHOVEL. BOLT, plow, No.3, 7/16-14NC x 1-1/4", w/NUT. BOLT, plow, No.3, 7/16-14NC x 1-1/2", w/NUT. WASHER, lock, 7/16" (2 used). WASHER, plain, 1/2" I.D. x 1-1/8" O.D. x 18 ga.
5 6 7 8	P 16 691 P 16 692 S 5 375 P 16 705	TOOTH, spring. HELPER, tooth. BUSHING, tooth helper. TOOTH, spring, assembly (Consists of: 1 BUSHING S S 375 1 HELPER P 16 692 1 TOOTH F 16 691).

POGW-137 GAUGE WHEEL, Left (Steel Tire) (Regular)
POGW-138 GAUGE WHEEL, Right (Steel Tire) (Regular)
POGW-139 GAUGE WHEEL, Left (Pneumatic Tire) (Special)
POGW-140 GAUGE WHEEL, Right (Pneumatic Tire) (Special)



No.		Part Number		Description .
1.2545	20			BOX, wheel, outside.
S		119 512		FITTING, lubrication, straight, 1/8".
:5	20	24 425		WHEEL, steel tire, (welded assembly).
4	PO	24 425 25 938		FOLLOWS Ref. No 5.
- 5	20	2 953		COLLAR, thrust,
	PO PO PO	25 931		PIN, thrust coliar.
6	20	2 774		BOX, wheel, inside.
7	2,52,	15 093		BOLT, carriage, 1/2-15 NC x 2-1/4", w/NUT
	200	103 323		WASHER, lock, 1/2".
12	5	511 939		AXLE, left, w/COLLAR (welded assembly).
8	11	511 940		AXLE, right, w/COLLAR (welded assembly).
9	1	512 B3	H11	U-BOLT, axle, w/NUTS
3		105 610		NUT, square, 5/8-linc (2 used).
2000	Po			BLOCK, U-bolt.
10 11 12 13	20	28 25		CAP, U-bolt.
10	В	32 991		WHEEL, disk, w/VALVE HOLE.
14	8	13 24		BOLT, machine, 3/8-16NC x 3/4" w/NUT (& used).
10				WASHER, lock 5/8" (3 used).
36	-	103 323		CATALOT ALAN -/- WATUR DATE
14 15	В	38 969		WHEEL, disk, w/o VALVE HOLE.
15		514 76	HAT	CLAMP, axle, assembly.

MASTER CONTROL LEVER (511 893 R93)



MASTER CONTROL LEVER (511 893 R93) - Continued

Index to Reference Numbers shown in illustration on opposite page.

Ref.	Part Number	Description
1	511 970 R93	LEVER and ROCKSHAFT, assembly.
8	511 964 R1 142 485	Pin, groove, 1/8 x 5/8".
8	511 962 R1 104 182	HANDLE, lever. RIVET, ck-hd.,5/16" x 7/8".
4	C 153 M 511 963 F1	WASHER, plain, 7/16" I.D. x 11/16" O.D. x 18 ga. BOD, latching, lever.
5	13 042 R1 106 263 2 067 A	PIN, cotter, 1/8 x 3/4". WASHER, plain, 7/15" I.D. x 1" O.D. x 14 ga. SPHING, latch rod (41/64" O.D. x 5-3/8" long)
	2 300000	(20 coils).
6	514 296 R92 13 139 R1	PIN, cotter, 1/4 x 1-3/4". WASHER, plain, 1-5/16"I.D.x 2" 0.D. x 18 52.
7	9 166 514 297 Ft. 104 099	GUIDE, latening rod. HIVET, ck-hd., 5/16 x 1" (2 used).
8 9 10 11	1 691 B 1 892 B	BEARING, half, rockshaft, upper. BEARING, half, rockshaft, lower.
10	27 485 B 511 976 RL	BUSHING, spring link.
**************************************	13 298 R11 PO 10 585	BOLT, machine, 1/2-15NC x 1-1/2", w/NUT. WASHER, plain, 17/32" I.D. x 1-1/4" O.D. x 11 gs. (2 used).
12 13	511 975 R1 511 973 R2	ADJUSTER, spring link. QUADRANT, lever.
	13 271 R11 13 316 R11	BOLT, machine, 7/16-14NC x 1-1/4", w/NUT. BOLT, machine, 7/16-14NC x 1-3/4", w/NUT. WASHER, lock, 7/16" (2 used).
14	103 322 515 742 R1 179 583	PLATE, mounting, rocksnaft. SCREW, cap, 1/2-13MC = 1-1/4" (3 used).
and I	103 393	WASHER, lock, 1/2" (2 used).
15	515 743 R1 114 774 15 025 R11	SUPPORT, quadrant (also rockshaft support). NUT, hex., 1/2-13NC (4 used). BOLT, carriage, 1/2-13NC x 1-1/4", w/NUT.
		(E used).
16	511 974 R1 13 292 R11 103 322	ANCHOR, spring, front. BOLT, machine, 7/16-14NC x 1-1/2*, w/NUT.
17	Q 888 PO 10 535	WASHER, lock, 7/16". BOLT, machine, 1/2-13NC x 6" (w/5-1/8" of thread). WASHER, plain, 17/82" I.D. x 1-1/4" O.D. x 11 gs.
16 19	M 1 425 M 1 430	PLUG, spring. SPRING, balance (1-11/18* O.D. x 14-5/18* long (38 colls).

NUMERICAL INDEX

Part Number	Page	Fart Number	Page	Part Number	Page	Part Number	Page
No. 6 642 6 652 103 321 103 522 103 522	11 11 13 12 15	27 485 B 26 256 B 5 32 958 8 32 992 C	15 13 13 13	PO 2 774 PO 2 933 PO 3 139 PO 3 140 PO 3 190 PO 10 535 10 620 P	13 13 12 12 13 15 15	15 025 R11 15 091 R11 15 569 R11 15 586 R11 511 932 R1 511 933 R1 511 934 R1	15 13 12 12 11 11 11
103 523 103 523 103 523 105 525 104 099	HINDS	0 155 M	15	PO 18 500 A PO 24 429 PO 25 932 PO 27 762	11 13 13 13 12	511 955 81 511 937 R1 511 939 R11 511 940 R11 511 962 R1	11 11 13 15 15 15
104 182 105 608 105 610 106 263 114 774 119 512 142 465 179 683	SECTION SECTION	F 16 260 F 16 691 F 16 692 F 16 705	12 12 12 12	Q 166 Q 109 Q 622 Q 1 179	15 12 15 11	511 963 R1 511 964 R1 511 970 R93 511 973 R2 511 974 R1 511 975 R1 511 976 R1 512 857 R11	15 15 15 15 15 15
A 2 087 A	15	M1 430 M 1 425 N	15 15	15 042 R1 15 068 R1 15 159 R1	15 11 15	513 988 R2 514 297 R1 514 298 R92 514 769 R91 515 742 R1 515 743 R1	11 15 15 15 15
B 1 691 B 1 692 B	15	N 62 157	11	13 245 H1 13 271 H1 13 292 R1 13 295 H1 13 316 H1	1 15 1 15 1 15 1 15	8 5 5 375 W	12
26 209 B 29 416 B	15 11 11	20 2 773	15	15 558 R1 13 415 R1	11	W 6 652	11

ABBREVIATIONS USED IN THIS MANUAL

I.D inside diameter st	i-	hd	8	ě	8	8	3	Ť	9	10	ste	ind	ard h	end
NC National Coarse Thread w/	0	•	3	2/2	•	•	*	ž	•	3	8	:	with	out